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Virtual Aesthetic Doctor





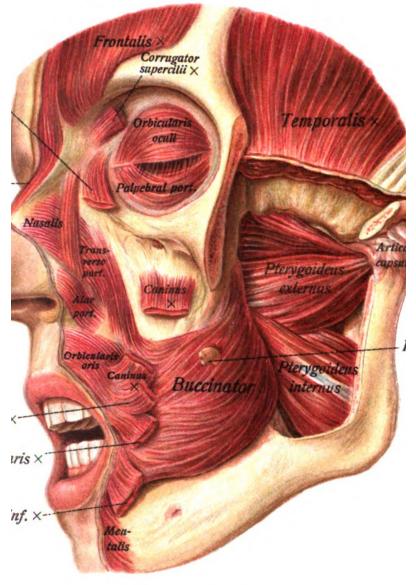


EXTERNAL ANATOMY OF THE NOSE

- Upper 1/3 of the nasal skin is thin with a thicker fat layer
- Lower 2/3 especially supra tip and tip skin is thicker and has a thin fat layer.
- As a result of this I recommend using different products on both areas.



- M.nasalis is the main muscle which is responsible from alar flaring when breathing. Especially the alar portion.
- Trigeminal nerve (maxillary branch)is responsible for sensory innervation and facial nerve is for the motor innervation.

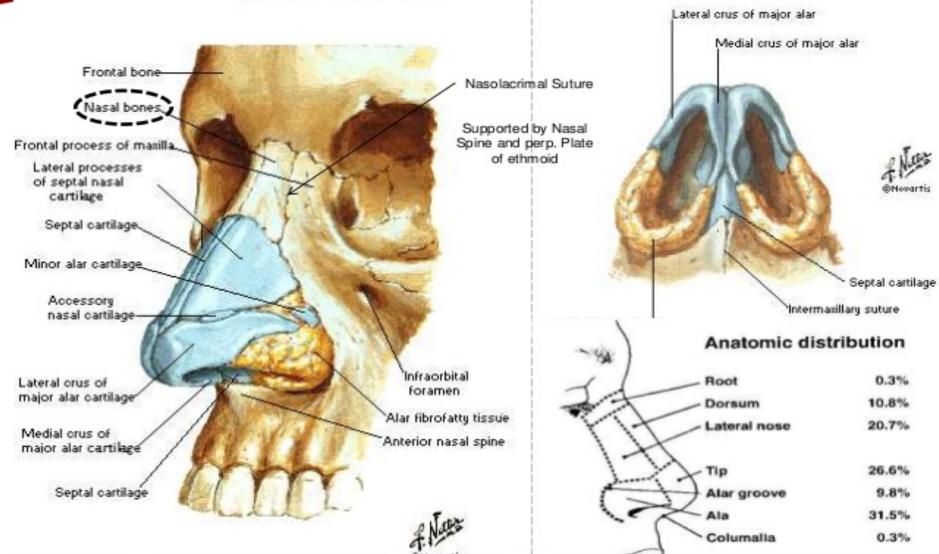






Nose [Skeleton] Anterolateral View

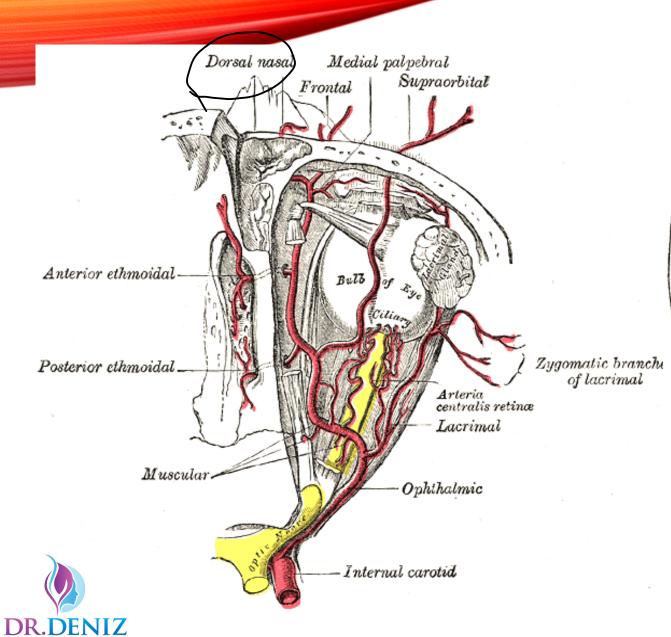
Nose [Skeleton] Inferior View

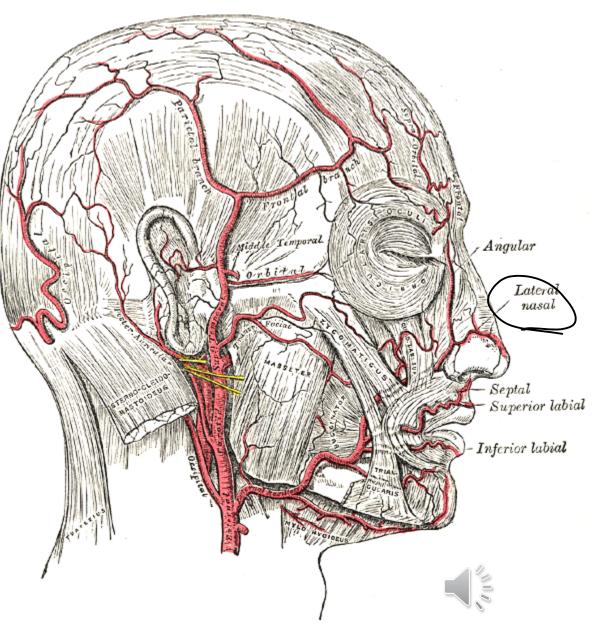


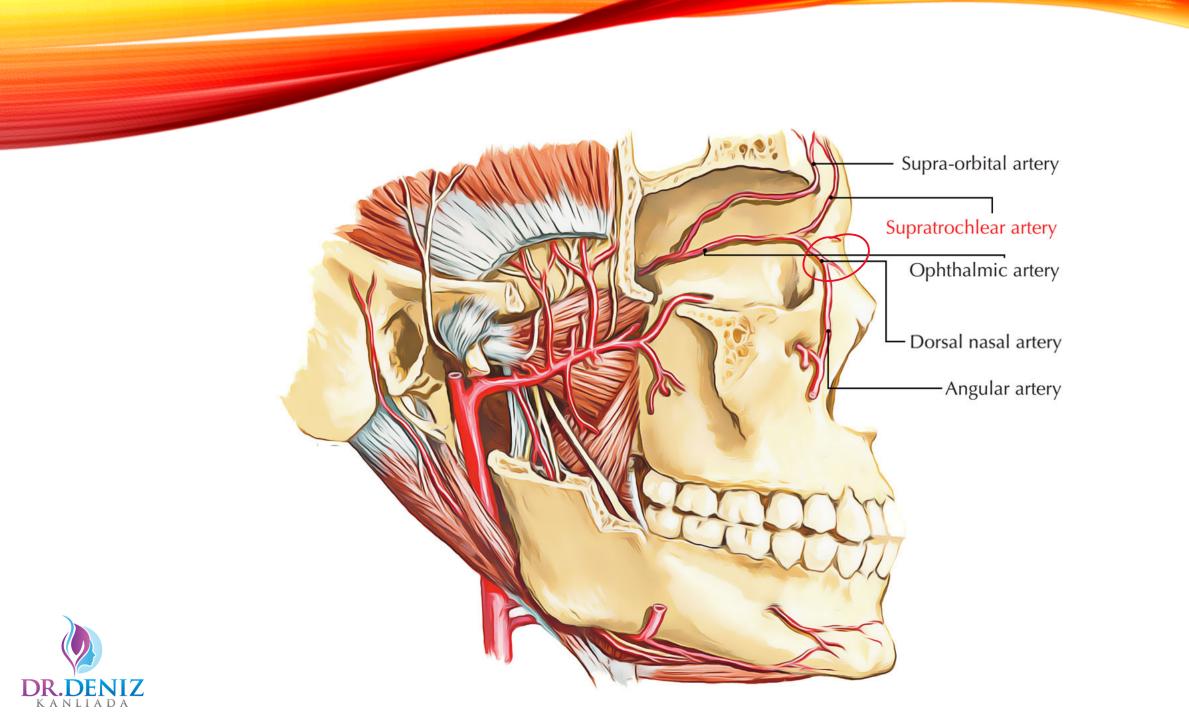


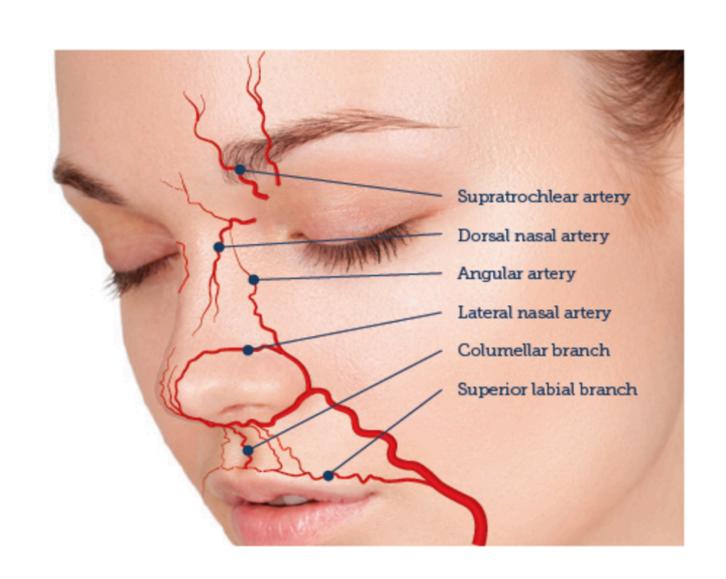


BLOOD SUPPLY













DANGER ZONES

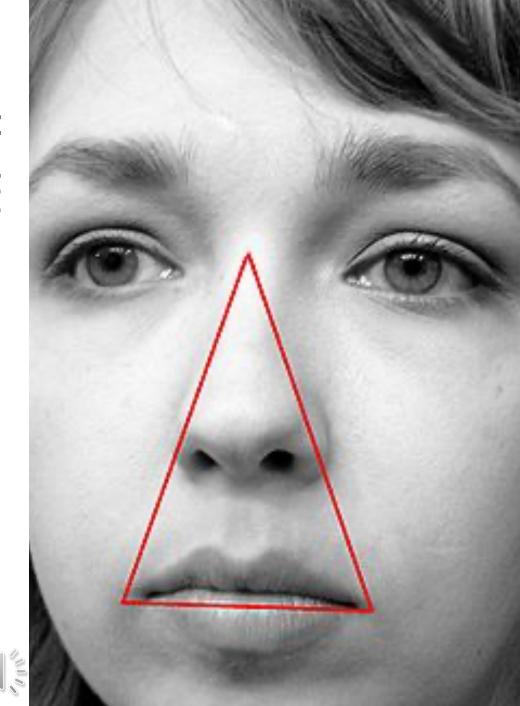
- Angular artery is one of two terminal branches of facial artery and ascends along the lateral aspect of the nose. The branches of the angular artery anastomoses with the infra-orbital artery and dorsal nasal branch of the ophthalmic artery.
- Lateral nasal artery (anastomoses with angular artery)
- Dorsal nasal artery (anastomoses with supratrochlear artery and then ophthalmic artery)
- Injections should be very medially and very deep down to bone and the cartilage as all the vascular structures lie in SMAS or above.



DANGER TRIANGLE OF THE FACE

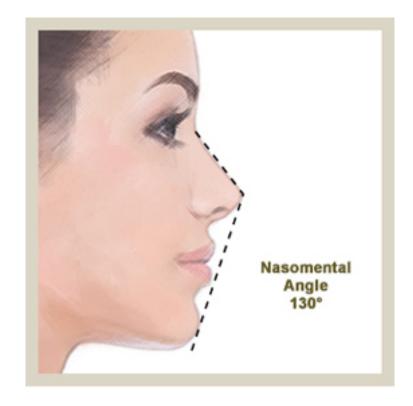
- The **facial** vein is connected to cavernous sinus via the superior ophthalmic vein.
- The facial vein is **valveless** blood can reverse direction and flow from the facial vein to the cavernous sinus.
- This provides a potential pathway by which infection of the face can spread to the venous sinuses.
- needs to be treated aggressively with <u>antibiotics</u> and <u>blood thinners</u>.

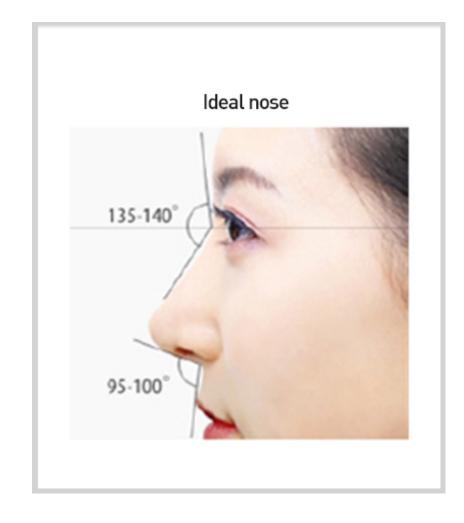




ANGLES

- Nasolabial
- Nasofrontal
- Nasomental



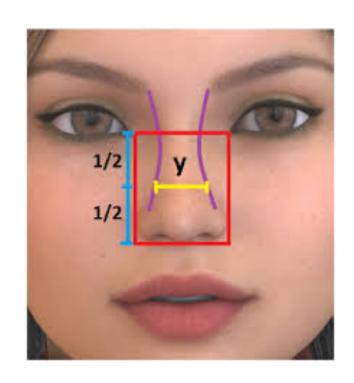








DORSAL AESTHETIC LINES



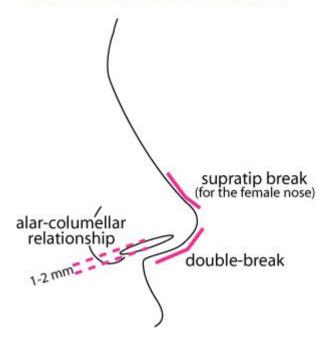






SUPRA TIP BREAK

Ideal Nasal Parameters









INDICATIONS

With an ideal hyaluronic acid filler and technique we can,

- correct dorsum problems,
- Increase the height of dorsum if needed
- increase the rotation and the projection of the tip,
- correct dorsal aesthetic lines,
- change the width of the nose,
- correct asymmetric nostrils,
- improve breathing..





x1 - Nasolabial Angle (Anterior nasal spine):

- Injecting deep to anterior nasal spine will increase the nasolabial angle and the distance between columella and vermillion.
- This will also slightly increase the projection of the nose.
- Myomodulation; preventing droopy tip while talking (depressor nasi septi)

x2 - Columella (Anterior septum)

Injecting in between medial crus footplates will increase tip projection and nasolabial angle.





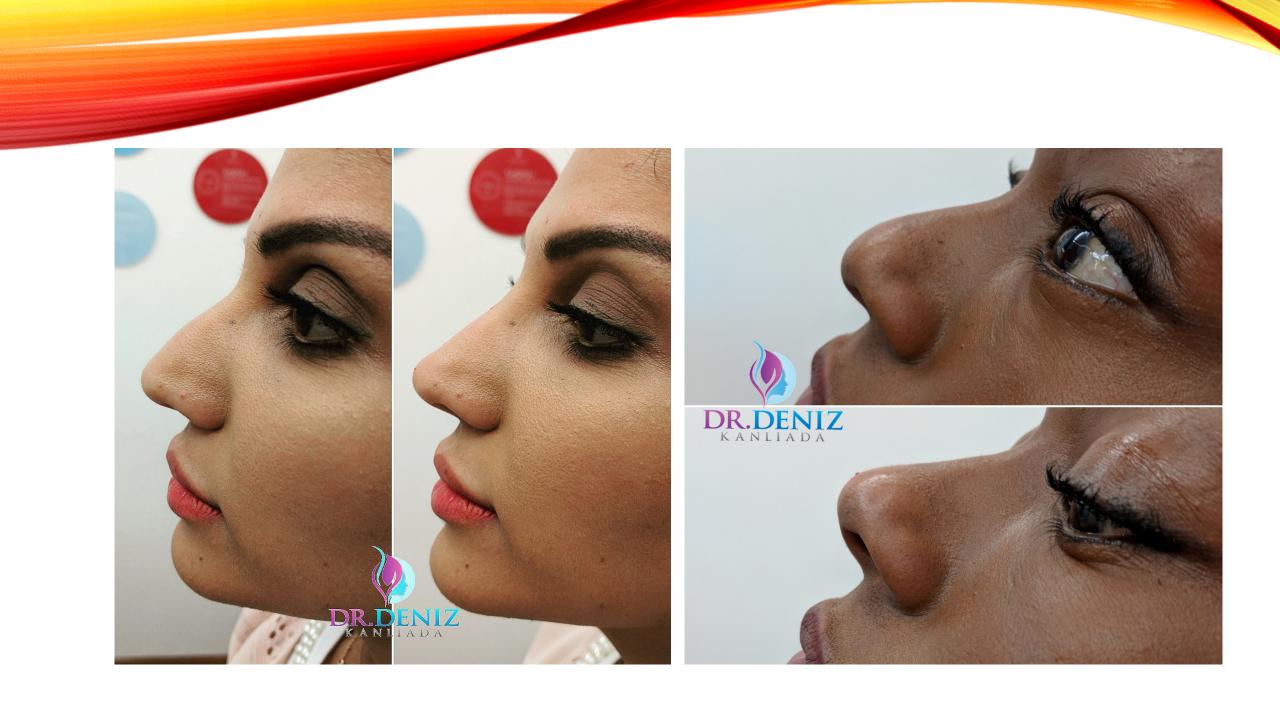


• x3 – Tip/Supratip Area

- Injecting in between the dome area you can increase the tip projection
- can create a supratip break.
- Supra tip dents due to surgery can also be corrected







x4-<u>Cartilaginous Dorsum</u>

- You can balance the dorsal aesthetic lines especially if the patient had a rhinoplasty and has asymmetric dorsal aesthetic lines.
- Injections should be deep to SMAS down to the perichondrium.

x5 - Bony Dorsum

- You can adjust the height and the width of the bony septum.
- You can straighten the dorsal hump
- Correct irregularities after surgery
- Injections should be deep to the periosteum to prevent further bleeding, bruising or injecting into a blood vessel.







Nose [Skeleton] Anterolateral View

Nose [Skeleton] Inferior View

Lateral crus of major alar

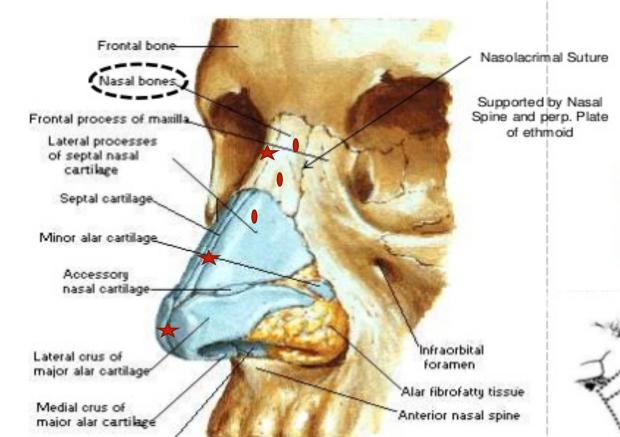
Medial crus of major alar

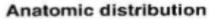
Medial crus of major alar

One of major alar

Septal cartilage

Intermanillary suture





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/	Root	0.3%
1	Dorsum	10.8%
1	Lateral nose	20.7%
2	Tip	26.6%
-	Alar groove	9.8%
-	Ala	31.5%
1	Columalia	0.3%



bolus

Micro

droplets

Septal cartilage

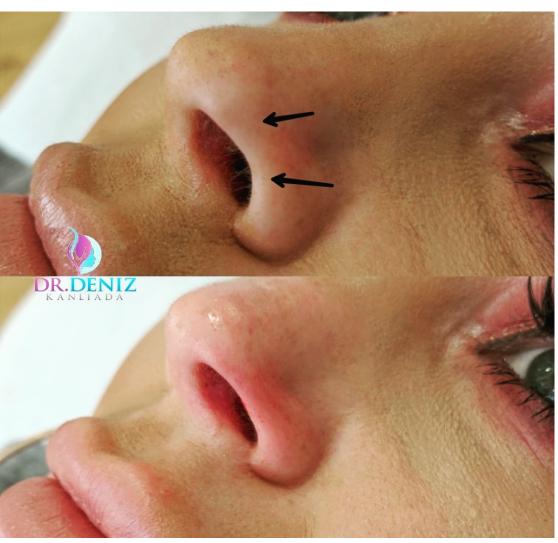
X6 Alar lobule

- can correct the pinched appearance on the sides after a surgical rhinoplasty due to cartilage loss
- Helps to decrease columellar show by lowering the lateral cartilages





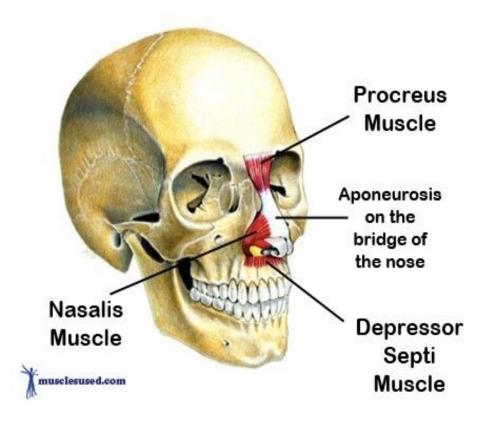




A USEFUL TIP WITH BOTULINUM TOXIN

 5-10 units of Dysport or Azzalure / 2-4 units of BOTOX to M.Depressor Nasi septi to increase the tip projection and prevent tip drooping while talking or smiling.

 Also if the patient has wide nostrils due to increased flaring you can put 5 units of Dysport or Azzalure / 2 units of BOTOX to Alar portion of M.Nazalis (M.dilator naris) to narrow the nostrils.







WHICH PRODUCT TO USE ??

- Hyaluronic acid fillers may be differentiated in degree of crosslinking, concentrations, gel hardness and cohesivity
- Viscosity measures the force required to push a product through a syringe, and is directly proportional to the G prime
- **G prime** represents gel hardness and is measured by placing a specific amount of HA product between two metal plates then measuring how much force it takes to slide one plate against the other.
- The more force that is needed, the harder the product is.
- Cohesivity expresses the amount of pressure required to press two plates together like a sandwich when a particular HA product has been applied between the plates.
- Vertical standing of the fillers depends on higher cohesivity of the filler.





BRANDS

- Perlane has the highest G prime, followed by Restylane. Juvaderm is in the middle. Not ideal to tip, columella or alar injections!
- Restylane has higher viscosity than Juvaderm range
- Juvaderm range has higher cohesivity than Restylane and Perlane.
- Non HA brands are not recommended as they are not reversible.



COMPLICATIONS

• Early: Hours to days

• Delayed : Weeks to years





EARLY

- Edema
- Pain
- Erythema
- Ecchymosis
- Itching
- Tyndall Effect
- Infection (Bacterial or Herpes Simplex)
- Vascular occlusion



LATE

- Biofilm formation
- Granuloma
- Scarring
- Dyspigmentation
- Vascular occlusion due to compression



VASCULAR OCCLUSION

- Localized skin necrosis
- Distant blindness, cerebral ischemia

Arterial occlusion:

- Immediate blanching, pain if not treated erythema, purpura, pustulation and ulceration then scarring
- Capillary refill will be longer than 4 seconds
- Skin will look darker in time

<u>Venous occlusion:</u>

- Persistent dull pain with erythema and swelling.
- Capillary refill can be shorter than 4 seconds
- Skin colour will look bluish



PREVENTING

- Aspiration
- Low injection pressure
- Blunt cannulas? (there are more blindness complications in the literature with cannulas)
- Do not over treat





EMERGENCY PROTOCOL

- Stop injecting
- Immediate injection of hyaluronidase (min 10-30 IU per 0.1ml of HA)
- Warm compress and massage
- Capillary refill should be less than 4 secs if not succeeded in 60mins you can repeat it up to 4 cycles
- 325 mg aspirin twice a day 7 days to use when sending home
- Review every day if not possible every 48 hours
- If necrosis is progressive hyperbaric oxygen
- Sildenafil, steroids, iv prostaglandins are also beneficial



• Blindness:

Call ambulance and if you are competent enough inject 200 IU of hyalase retro orbitally is needed to be injected infero laterally.



THANK YOU

- For support and help please send me an email on dkplastix@gmail.com
- Also follow all our action on my Instagram profile
- @london_cosmetic_surgeon

